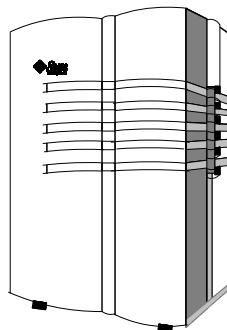


Ultra Enterprise 10000 Server



Product Specifications	Ultra Enterprise 10000		
Packaging	Data Center Cabinet		
System Board Slots	16		
CPU	UltraSPARC-II		
Number of CPUs	16-64		
Clock Speed	250 MHz		
Cache Per Processor	Primary: 16KB instruction, 16KB data Secondary: 1MB external		
System Memory	2 GB - 64 GB		
I/O Channels	2-32		
I/O Channel Bandwidth	200 MBps each		
System Bus Bandwidth (Sustained / Peak)	10.5 GBps / 12.5 GBps		
SBus Slots	4-64		
Maximum Internal Disk Capacity	190 GB		
Maximum External Disk Capacity	> 20 TB		
Redundant Power and Cooling	Yes		
Hot Swap System Components	Yes		
System Monitor	HostView		
Solaris License	Solaris 2.5.1 or later		
Performance	16 CPU	32 CPU	64 CPU
SPECint_rate95	N/A	N/A	N/A
SPECfp_rate95	N/A	N/A	N/A
Estimated TPM	N/A	N/A	N/A
NFSops/sec @ msec/op	N/A	N/A	N/A

Ultra Enterprise 10000 Server - New Systems

This is a sample ordering guide for the Ultra Enterprise 10000 server. Each step outlined by a large box in the guide represents a line item on a server sales order. A minimum legal configuration can be created by choosing one option at each step of the order process marked "Required". Larger configurations can be created by choosing multiple options. Upgrade part numbers appear after this ordering flow chart.

Step 1 - Required:

SERVER BASE PACKAGE



Part Number	Description	List Price	Discount Category
E10000	Enterprise 10000 Server Base Package. Includes Ultra Enterprise 10000 Base Cabinet, cage for 16 system boards, peripheral space with power sequencer, Solaris license for unlimited users, licenses for AP and SSP software.	\$190,000	A



Step 2 - Required:

UltraSPARC MODULE
Minimum of 16 per system.
Maximum of 4 per System Board.
Maximum of 64 per E10000.



ULTRASPARC MODULE			
2530A	UltraSPARC module, 250 MHz, 1MB External Cache.	\$16,000	A
2550A	UltraSPARC module, 250 MHz, 4MB External Cache.	\$15,000	A



Step 3 - Required:

SYSTEM BOARD
Minimum of 4 per system.
Maximum of 16 per E10000.



SYSTEM BOARD			
2760A	E10000 System Board with no memory, no processor modules, no I/O board.	\$60,000	A



Step 4 - Required:

SYSTEM MEMORY
Minimum of 8 x 7022A or 4 x 7023A per system.
Maximum of 4 per memory board.
Maximum of 64 per E10000.



SYSTEM MEMORY			
7022A	256MB ECC memory expansion (8 x 32MB SIMMs)	\$4,750	A*
7023A	1GB ECC memory expansion (8 x 128MB SIMMs)	\$48,500	A*



Step 5 - Required:

MEMORY BOARD
Minimum of 4 per system.
Maximum of 1 per system board.
Maximum of 16 per E10000.
Each Memory Bank accommodates 8 memory SIMMs and must be populated in pairs.



MEMORY BOARD			
7025A	E10000 Memory Board with 4 empty memory banks.	\$10,000	A



Note: Cache sizes may be mixed within any one system, but not within a system board.

Ultra Enterprise 10000 Server - New Systems (Cont.)

Step 6 - Required:

CONTROL BOARD
Minimum of 1 per system. Two for redundancy.

Part Number	Description	List Price	Discount Category
CONTROL BOARD			
2720A	E10000 Control Board including Ethernet cable.	\$20,000	A

Step 7 - Required:

POWER SUPPLIES:
For up to 8 System Boards, order five 48 volt Power Supplies.
For more than 8 System Boards, order eight 48 volt Power Supplies.

POWER SUPPLIES			
9685A	E10000 48V Power Supply.	\$4,000	A

Step 8 - Required:

AC BREAKERS:
For up to 8 System Boards, order 3 AC breaker & filter assemblies.
For more than 8 System Boards, order 4 AC breaker & filter assemblies.

AC BREAKERS			
3875A	E10000 AC Breaker/Filter Assembly.	\$3,000	A

Step 9 - Required:

COOLING FANS:
For up to 8 System Boards, order 10 fan trays.
For more than 8 System Boards, order 16 fan trays.

COOLING FANS			
9671A	E10000 Fan Tray.	\$2,000	A

Step 10 - Required:

POWER CONTROL MODULE:
Minimum of 1 per system. Maximum of 5 per system.

POWER CONTROL MODULE			
9681A	E10000 Power Control Module with cables to Control Board.	\$1,000	A

Ultra Enterprise 10000 Server - New Systems (Cont.)

Step 11 - Required:**SYSTEM SERVICE PROCESSOR (SSP):**

Minimum of 1 per system.
Order 2 for SSP redundancy.



Part Number	Description	List Price	Discount Category
SYSTEM SERVICE PROCESSOR			
2750A	E10000 System Service Processor (SSP). SPARCstation 5 workstation with 17" color monitor, 32MB, 2.1GB internal Fast/Wide SCSI-2 disk, CD-ROM.	\$8,895	A

Step 12 - Required:**SSP COUNTRY KIT:**

Order 1 Country Kit per SSP.



SSP COUNTRY KITS			
3500A	Type 5 Country Kit, North American	N/C	-
3576A	Type 5 Country Kit, Australian	N/C	-
3578A	Type 5 Country Kit, European Universal	N/C	-
3502A	Type 5 Country Kit, French	N/C	-
3574A	Type 5 Country Kit, Italian	N/C	-
3575A	Type 5 Country Kit, Netherlands	N/C	-
3571A	Type 5 Country Kit, Portugese	N/C	-
3507A	Type 5 Country Kit, U.K.	N/C	-
3551A	Type 5 Country Kit, Universal	N/C	-

Step 13 - Required:**SOFTWARE:**

Order must include one of each.



SOFTWARE			
SOLS-C	Solaris 2.x Server Media Kit for new systems only.	\$100	A
E10000-SW-SSP	E10000 software for the System Service Processor (SSP).	N/C	-
E10000-SW-AP	E10000 software for Alternative Pathing (AP).	N/C	-

Step 14 - Required:**I/O SBus BOARD:**

Minimum of 4 per system.
Maximum of 10 per Enterprise 10000.



I/O SBus BOARD			
2730A	E10000 Dual SBus I/O daughter card. Provides 4 single width SBus slots (2 per SBus channel).	\$7,500	A

Step 15 - Optional:**INTERNAL DISK STORAGE OPTIONS:**

Maximum of 3 SPARCstorage RSM's per Enterprise 10000.



INTERNAL DISK STORAGE OPTIONS			
6507AR4	SPARCstorage RSM module with 3 x 4.2GB 5400 RPM Fast/Wide SCSI disks	\$9,650	A
6508AR4	SPARCstorage RSM module with 7 x 4.2 GB 5400 RPM Fats/Wide SCSI disks	\$15,850	A
6514AR4	SPARCstorage RSM module with 3 x 9.1 GB 7200 RPM Fast/Wide SCSI disks	\$12,410	A
6515AR4	SPARCstorage RSM module with 7 x 9.1GB 7200 RPM Fast/Wide SCSI disks	\$22,290	A

Ultra Enterprise 10000 Server - New Systems (Cont.)

Step 16 - Optional:

INTERFACES AND HOST ADAPTERS:

These options may be required to support configured mass storage and tape devices (optional).



Step 17 - Required:

POWER CORD FOR SYSTEM:

Order 3 power cords for 8 or less System Boards.
Order 4 power cords for more than 8 System Boards.



Step 18 - Required:

POWER CORD FOR I/O IN SYSTEM CABINET:

One power cord required if RSM trays are configured in system cabinet.



Step 19 - Required:

Submit configuration to BSD SalesDesk, w/ E10000 configuration diagram.
(http://Marvin.West.Sun.Com/cte/sales_desk/)

Part Number	Description	List Price	Discount Category
INTERFACES & HOST ADAPTERS			
1012A	SinISDN Expansion Kit 1.0.1	\$595	A
1014A	Token Ring Interface/SBus (TRI/S) SBus-based Token Ring Adapter	\$1,350	A
1018A	SunSwift SBus Adapter	\$1,095	A
1019A	High-Speed Serial Interface (HSI/S), media and documentation.	\$2,275	B
1025A	SunFDDI Single-Attach SBus Adapter (SAS) 5.0	\$2,500	A
1026A	SunFDDI Dual-Attach SBus Adapter (DAS) 5.0	\$3,775	A
1053A	SBus Fast SCSI-2/Buffered Ethernet Card (FSBE/S)	\$1,095	A
1057A	25 MB/sec. SBus Fibre Channel Host Adapter	\$1,600	A
1042A	Quad FastEthernet SBus Card (QFE)	\$1,995	A
1059A	SunFastEthernet 10/100 SBus Adapter 2.0 SBus Card	\$795	A
1060A	SunATM-155/MFiber SBus Adapter 2.0	\$1,295	A
1061A	SunATM-155/UTP5 SBus Adapter 2.0	\$995	A
1062A	SBus Differential Fast/Wide Intelligent SCSI-2 Host Adapter (DWIS/S)	\$1,295	A
1063A	SBus Single-Ended Fast/Wide Intelligent SCSI-2 Host Adapter (SWIS/S) card	\$1,195	A
1064A	SunATM-622/MFiber SBus Adapter	\$4,995	A
1065A	SBus Ultra Differential Fast/Wide Intelligent SCSI Host Adapter	\$1,295	A

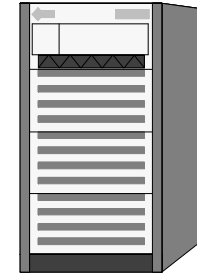
POWER CORD FOR SYSTEM			
3850A	E10000 Power Cord, North American version (U.S. and Canada).	N/C	-
3851A	E10000 Power Cord, International version.	N/C	-

POWER CORD FOR I/O IN SYSTEM CABINET			
3800A	220 volt Power Cord for Enterprise system and Expansion Cabinet, U.S. version.	N/C	A
3848A	Power Cord for Enterprise system and Expansion Cabinet, International Version (IEC 309, 32A, 250V plug)	N/C	A

Enterprise 10000 Server Upgrades

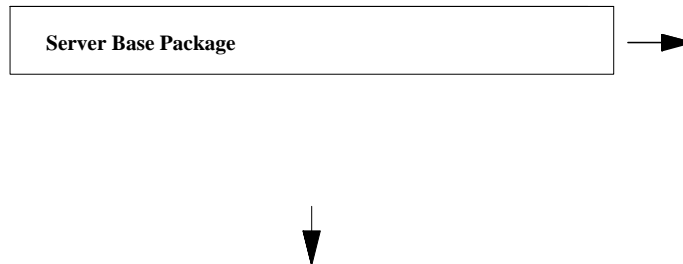
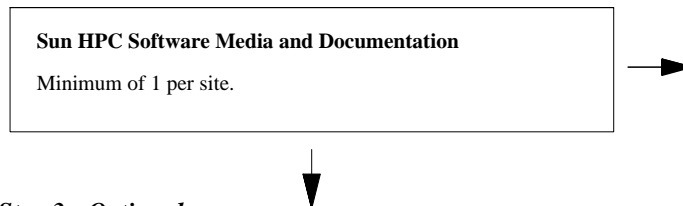
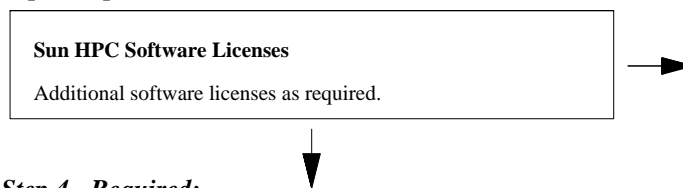
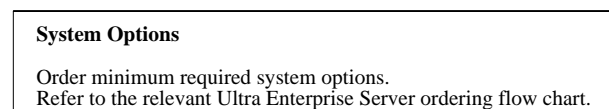
From	Part Number and Description	List Price	Discount Category
Enterprise 10000 Upgrades			
Enterprise 6000	UG-E6000-E10000 System upgrade from Enterprise 6000 system cabinet to Enterprise 10000 base cabinet, Centerplace with two Centerplace Support Boards, I/O space with power sequencer, Solaris license with unlimited users, SSP and AP licenses included.	\$152,000	A*
Board Upgrades			
Enterprise 6000	UG-ENT6-ENT10-SB2 System board upgrade from two Enterprise CPU/Memory Boards to one Enterprise 10000 System board; no processor, no memory board, no SIMMs. <u>NOTE:</u> Order only with E6000 to E10000 system upgrade.	\$50,000	A*
Enterprise 6000	UG-ENT6-ENT10-SB1 System board upgrade from one Enterprise CPU/Memory Boards to one Enterprise 10000 System board; no processor, no memory board, no SIMMs. <u>NOTE:</u> Order only with E6000 to E10000 system upgrade.	\$55,000	A*
Enterprise 6000	UG-SBIO-DSBIO Board upgrade from Enterprise 6000 SBus I/O Board to Enterprise 10000 Dual SBus I/O Board. <u>NOTE:</u> Order only with E6000 to E10000 system upgrade.	\$6,000	A*
Enterprise 6000	UG-ENT10-SBX System board upgrade from one Enterprise 6000 CPU/Memory Board or one CS6400 system board to one Enterprise 10000 System Board; no processor, no memory board, no SIMMs.	\$56,500	A*

* Maximum discount may apply.

Ultra HPC Server

Specifications	HPC 2	HPC 3000		HPC 4000		HPC 5000		HPC 6000		HPC 10000	
Model	2 CPUs	4 CPUs	6 CPUs	8 CPUs	14 CPUs	8 CPUs	14 CPUs	16 CPUs	30 CPUs	48 CPUs	64 CPUs
Processor	Ultra-SPARC	UltraSPARC-II		UltraSPARC-II		UltraSPARC-II		UltraSPARC-II		UltraSPARC-II	
Clock Speed	300MHz	250MHz		250MHz		250MHz		250MHz		250MHz	
# CPUs	1-2	1-6		1-14		1-14		1-30		16-64	
External Cache	1MB	1MB		1MB		1MB		1MB		1MB	
I/O Slots (SBus)	4	2-9		2-21		2-21		2-45		3-64	
Memory	2GB	6GB		14GB		14GB		30GB		64GB	
Maximum Storage	1TB	>2TB		>4TB		>6TB		>10TB		>20TB	
System Bus Bandwidth	1.6GB/sec.	2.6GB/sec.		2.6GB/sec.		2.6GB/sec.		2.6GB/sec.		12.8GB/sec.	
Software	Sun HPC Software v1.0	Sun HPC Software v1.0		Sun HPC Software v1.0		Sun HPC Software v1.0		Sun HPC Software v1.0		Sun HPC Software v1.0	
Operating System	Solaris 2.5.1	Solaris 2.5.1		Solaris 2.5.1		Solaris 2.5.1		Solaris 2.5.1		Solaris 2.5.1	
LSF Tokens	15	30		70		70		150		320	
Peak Performance Mflop/s	1200	3000		7000		7000		15000		32000	
Linpeak DP 1000 (Mflop/sec.)	750	1,126	1,607	2,038	3,112	2,038	3,112	3,493	4,755	N/A	N/A
Linpeak DP Rmax (Mflop/sec.)	1010	1,668	2,694	3,328	6,251	3,328	6,251	6,688	13,160	16,660	21,370

Ultra HPC Server

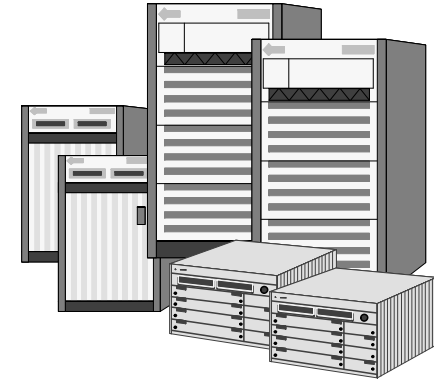
Step 1 - Required:**Step 2 - Required:****Step 3 - Optional:****Step 4 - Required:**

Part Number	Description	List Price	Discount Category
COMPLETE CLUSTERS			
HPC2-2300	Ultra HPC 2 server Model 2300 w/ two 300MHz UltraSPARC processors, 512-MB memory, 2x2.1GB 7200 RPM disks, internal SunCD 12, Sun HPC software license for a dual-processor LSF server (15 tokens). Requires Solaris 2.5 or later.	\$45,345	A
HPC3002 ^{1,2,3}	Ultra HPC 3000 server base package, Sun HPC software license for a 6 processor LSF server (30 tokens).	\$13,100	A
HPC4002 ^{1,2,3}	Ultra HPC 4000 server base package, Sun HPC software license for a 14 processor LSF server (70 tokens).	\$46,900	A
HPC5002 ^{1,2}	Ultra HPC 5000 server base package, Sun HPC software license for a 14 processor LSF server (70 tokens).	\$61,900	A
HPC6002 ^{1,2}	Ultra HPC 6000 server base package, Sun HPC software license for a 30 processor LSF server (150 tokens).	\$185,500	A
HPC10000 ^{1,2}	Ultra HPC 10000 server base package, Sun HPC software license for a 64 processor LSF server (320 tokens).	\$212,400	A
SOFTWARE			
HPC-1.0-B	Sun HPC software base package, media & documentation	\$200	B
SERVER LICENSES			
HPC-LSF-L1	Sun HPC software license for 1 uniprocessor LSF server (10 tokens)	\$1,000	B
HPC-LSF-L4	Sun HPC software license, 4 server licenses for an 8-processor LSF server (40 tokens)	\$4,000	B
HPC-LSF-L16	Sun HPC software license, 16 server licenses for a 32-processor LSF server (160 tokens)	\$16,000	B

¹ Requires Solaris 2.5.1 or later.² Refer to respective "Ultra Enterprise Server" section for minimum configured system options.³ Order HPC3001V5 & HPC4001V5 for Denmark only. HPC4001V5 requires X389L.

Ultra Enterprise Cluster HA Server

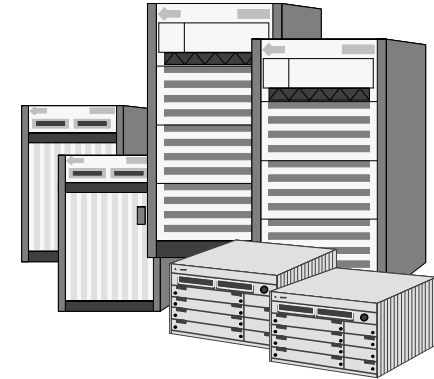
Designed to support highly available data services - NFS, Informix, ORACLE, Sybase, Internet, and user applications - the Ultra Enterprise Cluster HA Server provides automatic fault detection and recovery that restores data service within minutes of a service disruption. Its redundant hardware and software architecture automates recovery from failures that no single system can address.



Product Specifications	Ultra Enterprise 2 HA	Ultra Enterprise 3000 HA	Ultra Enterprise 4000 HA	Ultra Enterprise 5000 HA	Ultra Enterprise 6000 HA
Nodes in Cluster	2	2	2	2	2
Mixed Nodes	No	Yes (E3002 - E6002)	Yes (E3002 - E6002)	Yes (E3002 - E6002)	Yes (E3002 - E6002)
Cluster Nodes					
Processor	200 MHz UltraSPARC	250 MHz UltraSPARC	250 MHz UltraSPARC	250 MHz UltraSPARC	250 MHz UltraSPARC
Number of Processors	1-2	2-4	2-10	2-10	2-26
Memory	64MB - 2GB	256MB - 4GB	256MB - 10GB	256MB - 10GB	256MB - 26GB
Internal Disk	2.1GB SCSI	4.2GB SCSI	4.2GB SCSI	4.2GB SCSI	4.2GB SCSI
Storage					
External Storage (Array Model 1xx/2xx)	2 (972GB max.)	2-12 (2TB max.)	2-24 (4TB max.)	2-24 (4TB max.)	2-56 (10TB max.)
RAID Levels	0, 1	0, 1	0, 1	0, 1	0, 1
Storage Interconnect	Redundant Fiber Channel	Redundant Fiber Channel	Redundant Fiber Channel	Redundant Fiber Channel	Redundant Fiber Channel
Network					
Private Interconnect	Ethernet / FDDI	Fast Ethernet / FDDI	Fast Ethernet / FDDI	Fast Ethernet / FDDI	Fast Ethernet / FDDI
Public Network	Ethernet / FDDI	Ethernet / FDDI	Ethernet / FDDI	Ethernet / FDDI	Ethernet / FDDI
Software	Solstice HA 1.3, Solstice DiskSuite 4.1, Solaris 2.5.1				
Data Services	NFS, ORACLE7, Informix 7, Sybase 11, Internet				
Miscellaneous					
Node Separation	2 m	2 m	2 m	2 m	2 m
Node to SPARCstorage Array	2 km	2 km	2 km	2 km	2 km

Ultra Enterprise Cluster PDB Server

Designed for commercial enterprise computing, the Ultra Enterprise Cluster PDB Server supports a high availability large-capacity architecture that serves as a parallel database platform. The Enterprise PDB Server delivers the availability, performance, and scalability needed for mission-critical parallel database applications.



Product Specifications	Ultra Enterprise 2 PDB	Ultra Enterprise 3000 PDB	Ultra Enterprise 4000 PDB	Ultra Enterprise 5000 PDB	Ultra Enterprise 6000 PDB
Nodes in Cluster	2	2	2	2	2
Mixed Nodes	No	Yes	Yes	Yes	Yes
Cluster Nodes					
Processor	200 MHz UltraSPARC	250 MHz UltraSPARC	250 MHz UltraSPARC	250 MHz UltraSPARC	250 MHz UltraSPARC
Number of Processors	2	1-4	2-12	2-12	2-28
Memory	128MB - 2GB	256MB - 4GB	256MB - 10GB	256MB - 10GB	256MB - 26GB
Storage					
External Storage Type	SSA, RSM	SSA, RSM	SSA, RSM	SSA, RSM	SSA, RSM
Maximum Storage	506GB (4 SSA)	2TB (10 SSA)	4TB (26 SSA)	6TB (26 SSA)	10TB (58 SSA)
RAID Levels	0, 1, 5	0, 1, 5	0, 1, 5	0, 1, 5	0, 1, 5
Storage Interconnect	Copper SCSI Connection	Redundant Fiber Channel	Redundant Fiber Channel	Redundant Fiber Channel	Redundant Fiber Channel
Network					
Interconnect	Fast Ethernet	Sun Cluster Channel	Sun Cluster Channel	Sun Cluster Channel	Sun Cluster Channel
Software	Ultra Enterprise PDB 1.2, Solaris 2.5.1				
Volume Manager	CVM for OPS, VxVm for MPP, and XPS				
Data Services	ORACLE Parallel Server 7.3.2, Informix OnLine XPS 8.10, Sybase MPP 11.0				
Miscellaneous					
Node Separation	100 m	10 m	10 m	10 m	10 m
Node to SPARCstorage Array	6 m	2 km	2 km	2 km	2 km

Ultra Enterprise Cluster HA & PDB Servers

Step 1

Notify the SunService Area Customer Service Director (ACSD) about the impending order so they can ensure they have the necessary Support resources.

The ACSD checklist is available at:

HA Server:

http://cairn.corp/High_availability/HA/key_sales_process/index.html

PDB Server:

http://cairn.corp/High_availability/PDB/key_sales_process/index.html



Step 2

Order first cluster node or upgrade the existing node to a minimum spec for a cluster node (order the node as components from the Enterprise Server section).

Minimum of 1 per site.



Step 3

Order second cluster node or upgrade the existing node to a minimum spec for a cluster node (order the node as components from the Enterprise Server section).



Step 4

Cluster Foundation Package

Order the appropriate CFP. It contains all of the equipment necessary to connect 2 nodes together.



Part Number	Description	List Price	Discount Category
HA PRE-CONFIGURED SERVERS			
E2-HA	Ultra Enterprise Cluster 2HA Server	\$73,300	A
E3000-HA	Ultra Enterprise Cluster 3000HA Server	\$172,820	A
E4000-HA	Ultra Enterprise Cluster 4000HA Server	\$245,495	A
E5000-HA	Ultra Enterprise Cluster 5000HA Server	\$275,495	A
E6000-HA	Ultra Enterprise Cluster 6000HA Server	\$535,495	A
PDB PRE-CONFIGURED SERVERS			
E2-PDB	Preconfigured PDB Cluster, Ultra Enterprise 2	\$70,815	A
E3000-PDB	Preconfigured PDB Cluster, Ultra Enterprise 3000	\$187,555	A
E4000-PDB	Preconfigured PDB Cluster, Ultra Enterprise 4000	\$254,955	A
E5000-PDB	Preconfigured PDB Cluster, Ultra Enterprise 5000	\$284,955	A
E6000-PDB	Preconfigured PDB Cluster, Ultra Enterprise 6000	\$555,955	A
CLUSTER READY NODES			
E3000-CRN	Ultra Enterprise Cluster 3000 CRN	\$69,350	A
E4000-CRN	Ultra Enterprise Cluster 4000 CRN	\$98,550	A
E5000-CRN	Ultra Enterprise Cluster 5000 CRN	\$113,550	A
E6000-CRN	Ultra Enterprise Cluster 6000 CRN	\$231,550	A

HA CLUSTER FOUNDATION PACKAGES			
X1308A	Ultra Enterprise Cluster 2 HA w/SSA	\$13,240	A
X1301A	Ultra Enterprise Cluster 2 HA w/ MultiPack	\$7,230	A
X1259A	Ultra Enterprise HA Cluster Ex000	\$6,150	A
PDB CLUSTER FOUNDATION PACKAGES			
X1302A	Ultra Enterprise Cluster 2 PDB w/SSA	\$13,630	A
X1303A	Ultra Enterprise PDB Cluster X000	\$24,160	A
X1306A	Ultra Enterprise Cluster 2 PDB w/MultiPack	\$7,130	A
Other			
PDB-1.2-DOC	PDB 1.2 Documentation	\$500	A
X1257A	Sun Cluster Channel Pak	\$18,460	A
X1248A	Cluster Connect Kit	\$2,500	B

Ultra Enterprise Cluster HA and PDB Servers (cont.)

Step 5

HA 1.3 Software: Order 1 per node.
PDB 1.2 Software: Order 1 per node.

**Step 6**

Power Cord Kit(s)
 Enterprise 2, 3000, and 4000 need power cord X311L.
 Enterprise 5000 and 6000 need X83xxA.

**Step 7**

SPARCstorage Arrays
 Order at least 2 extra SSAs or 2 MultiPacks, if the customer does not already own them.



Part Number	Description	List Price	Discount Category
HA SOFTWARE			
HA2-1.3-S	Solstice HA 1.3 Software (E2)	\$5,000	B
HA3-1.3-S	Solstice HA 1.3 Software (E3000 and S1000)	\$7,500	B
HA4-1.3-S	Solstice HA 1.3 Software (E4000 and S2000)	\$12,000	B
HA5-1.3-S	Solstice HA 1.3 Software (E5000)	\$12,000	B
HA6-1.3-S	Solstice HA 1.3 Software (E6000)	\$24,000	B
PDB SOFTWARE			
PDB2-1.2-S	PDB 1.2 Base Software (E2)	\$6,000	A
PDB3-1.2-S	PDB 1.2 Base Software (E3000 and S1000E)	\$10,000	A
PDB4-1.2-S	PDB 1.2 Base Software (E4000 and S2000E)	\$14,500	A
PDB5-1.2-S	PDB 1.2 Base Software (E5000)	\$14,500	A
PDB6-1.2-S	PDB 1.2 Base Software (E6000)	\$32,000	A
POWER CORD KITS			
X311L	Enterprise 2, 3000, 4000 Power Cord	N/C	D
X3800A	Enterprise 5000, 6000 Power Cord, U.S. version	N/C	D
X3848A	Enterprise 5000, 6000 Power Cord, Internation version	N/C	D
STORAGE			
(X)6590A(R4/R5) ^{1,2,3}	SSA Model 112, 6x2.1GB disks	\$21,400	A
(X)6591A(R4/R5) ^{1,2,3}	SSA Model 112, 18x2.1GB disks	\$33,400	A
(X)6592A(R4/R5) ^{1,2,3}	SSA Model 112, 30x2.1GB disks	\$45,400	A
(X)6517A(R4/R5) ^{1,2,3}	SSA Model 114, 6x4.2GB disks	\$24,100	A
(X)6518A(R4/R5) ^{1,2,3}	SSA Model 114, 18x4.2GB disks	\$41,500	A
(X)6519A(R4/R5) ^{1,2,3}	SSA Model 114, 30x4.2GB disks	\$58,900	A
X796A	75.6GB SSA 214 RSM	\$59,600	A
X797A	176.4GB SSA 214 RSM	\$84,400	A
X6595A	164.8GB SSA 219 RSM	\$95,460	A
X6596A	382.2GB SSA 219 RSM	\$154,740	A
X5511A	4.2GB (2x2.1GB) MultiPack for E2 HA	\$2,900	A
X5506A	54.6GB (12x9.1GB) MultiPack for E2 HA	\$14,920	A
959A	SSA Accessories Kit	N/C	N/D

¹ Append an "X" before the Order Number for standalone orders.

² Enterprise 5000 and 6000 only: append an "R4" after the Order Number for factory-installation.

³ Enterprise 3000 and 4000 only: append an "R5" after the Order Number for factory-installation.

Ultra Enterprise Cluster HA and PDB Servers (cont.)

Step 8**Fiber Channel Optical Modules**

Order at least 2. Each SSA in the cluster must be dual ported: 1 FC/OM is included with each SSA purchased. Order 1 extra FC/OM for each additional array purchased.



Part Number	Description	List Price	Discount Category
FIBER CHANNEL OPTICAL MODULE			
X595A	Fiber Channel Optical Module	\$600	A

Step 9**Fiber Optic Cables**

Order at least 2 for every non system rack-mounted SSA. 1 cable is bundled with the Cluster Foundation Package.



FIBER OPTIC CABLE			
X978A	Fiber Optic Cable	\$175	A

Step 10**Data Service Module Licenses**

Oracle, Sybase, Informix, or Internet users must purchase a Data Service for each node in the cluster. A single cluster can run multiple Data Services.



HA DATA SERVICE MODULES			
HAI-1.3-L	HA-Informix Data Service Module	\$2,000	B
HAO-1.3-L	HA-Oracle Data Service Module	\$2,000	B
HAS-1.3-L	HA-Sybase Data Service Module	\$2,000	B
HAN-1.3-L	HA-Internet Data Service Module	\$2,000	B
PDB DATA SERVICE MODULES			
PDBO-1.2-L	PDB 1.2 Data Service Module - Oracle	\$4,000	A
PDBI-1.2-L	PDB 1.2 Data Service Module - Informix	\$2,000	A
PDBS-1.2-L	PDB 1.2 Data Service Module - Sybase	\$2,000	A

Step 11**Solaris 2.5.1 Media Kit**

Order 1 per node.



MEDIA KIT			
SOLS-2.5.1APR97	Solaris 2.5.1 Server Media Kit	\$100	A

Step 12**Public Network Connections**

Order at least 1 per node. FDDI and Ethernet are supported as public network connections.

PDB Server:

On Ex000, the I/O board 10/100 Enet connections may be used.



PUBLIC NETWORK CONNECTIONS			
1042A	Quad FastEthernet SBus (QFE)	\$1,995	A
1025A	SunFDDi Single-Attach SBus Adapter (SAS) (FDDI-5)	\$2,500	A
1026A	SunFDDi Dual-Attach SBus Adapter (DAS) (FDDI-5)	\$3,775	A
1059A	SunFastEthernet 10/100SBus Adapter 2.0	\$795	A

Step 13

SunService HA/PDB Support Package
The SunService Package is mandatory for all cluster orders. In addition, the customer must be upgraded to at least Gold or Platinum hardware support.



Step 14

Node or Storage Options
Add any node or storage options required. Refer to Enterprise Server configuration guidelines.



Step 15

Submit sales order to an SMCC Customer Service Representative (CSR) for booking.



Ultra Enterprise HA/PDB Server orders will not be processed without a properly completed ACSD Checklist (see Step 1).



Step 16

E-mail copy of sales order, TC checklist, configtool analysis report and ACSD Checklist to the Cluster SalesDesk for scheduling:

HA Server:
"ha-sales@sun.com"

PDB Server:
"pdb-sales@sun.com"

Notification by e-mail will be sent when the Server has been scheduled for shipment.



The Cluster SalesDesk will work with you to validate the cluster configuration and see that the ACSD Checklist receives the required SunService corporate approval.

Ultra Enterprise Cluster HA and PDB Servers (cont.)